

LINCOLN-LANCASTER COUNTY AIR POLLUTION CONTROL PROGRAM

ARTICLE 2. REGULATIONS AND STANDARDS

SECTION 20. PARTICULATE EMISSIONS - LIMITATIONS AND STANDARDS

(Exceptions due to breakdowns or scheduled maintenance: See Section 35 of these Regulations and Standards)

- (A) No person shall cause, suffer, allow or permit the emission of particulates from any processing machine, equipment, device or other articles, or combination thereof, except indirect heating equipment and incinerators, in excess of the amounts allowed in Table 20-1 during any one hour.
- (B) No person shall cause or allow particulate matter caused by the combustion of fuel to be emitted from any stack or chimney into the outdoor atmosphere in excess of the hourly rate set forth in the following table:

Total Heat Input in Million British Thermal Units Per Hour	Maximum Allowable Emissions of Particulate Matter in Pounds per Million British Thermal Units
10 or less	0.60
10,000 or more	0.12

- (C) The allowable emission rate for equipment having immediate heat input between 10 (10^6) BTU and 10,000 (10^6) BTU may be determined by the formula:

$$A = \frac{1.026}{I^{.233}}$$

A = The allowable emission rate in Lb/ 10^6 BTU

I = The total heat input in 10^6 BTU/Hr

- (D) For the purpose of these regulations, the heat input shall be the aggregate heat content of all fuels whose products of combustion pass through a stack, or the equipment manufacturer's or designer's guaranteed maximum input, whichever is greater. The total heat input of all fuel burning units at a plant or on a premises shall be used for determining the maximum allowable amount of particulate matter which may be emitted.

- (E) No person shall cause or allow emissions, from any existing source, which are of an opacity equal to or greater than twenty percent (20%), as evaluated by Method 9 in Appendix A of 40 CFR Part 60, which is incorporated herein, by reference, or recorded by a continuous opacity monitoring system operated and maintained pursuant to 40 CFR Part 60 Appendix B except as provided for in paragraph (F) of this Section.

Table 20-1

Process Weight Rate Lb/Hr	Process Weight Rate Tons/Hr	Process Allowable Rate of Emission Lb/Hr	Weight Process Weight Rate Lb/Hr	Allowable Rate of Tons/Hr	Rate of Emission Lb/Hr
100	0.05	0.551	16,000	8.000	16.5
200	0.10	0.877	18,000	9.00	17.9
400	0.20	1.40	20,000	10.	19.2
600	0.30	1.83	30,000	15.	25.2
800	0.40	2.22	40,000	20.	30.5
1,000	0.50	2.58	50,000	25.	35.4
1,500	0.75	3.38	60,000	30.	40.0
2,000	1.00	4.10	70,000	35.	41.3
2,500	1.25	4.76	80,000	40.	42.5
3,000	1.50	5.38	90,000	45.	43.6
3,500	1.75	5.96	100,000	50.	44.6
4,000	2.00	6.52	120,000	60.	46.3
5,000	2.50	7.58	140,000	70.	47.8
6,000	3.0	8.56	160,000	80.	49.0
7,000	3.50	9.49	200,000	100.	51.2
8,000	4.00	10.4	1,000,000	500.	69.0
9,000	4.50	11.2	2,000,000	1,000.	77.6
10,000	5.00	12.0	6,000,000	3,000.	92.7
12,000	6.00	13.6			

Interpolation of the data in this table for process weight rates up to 60,000 Lb/Hr shall be accomplished by use of the equation $E = 4.10 p^{.67}$ and interpolation and extrapolation of the data for process weight rates in excess of 60,000 Lb/Hr shall be accomplished by use of the equation $E = 55.0 p^{.11-40}$, where E = rate of emission in Lb/Hr and P = process weight rate in Tons/Hr. If two or more units discharge into a single stack, the allowable emission rate will be determined by the sum of all process weights discharging into the single stack.

- (F) Exceptions:

- (1) No person shall cause or allow emissions from any existing teepee waste wood burner which are of an opacity equal to or greater than forty percent (40%).

ARTICLE 2
SECTION 20

LINCOLN-LANCASTER COUNTY

- (2) No person shall cause or allow emissions from any existing alfalfa dehydration plant dryer which are of an opacity equal to or greater than thirty percent (30%).
- (3) Emission sources subject to monitoring requirements of Section 34, paragraph (E) of these Regulations and Standards are allowed to have one six minute period per hour of not more than 27 percent opacity.
- (G) All new sources shall comply with paragraph (E) of this Section unless a New Source Performance Standard applies as specified in Section 18 of these Regulations and Standards.

Ref: Title 129, Chapter 20, Nebraska Department of Environmental Quality

LINCOLN-LANCASTER COUNTY

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